

## **10. Location-Specific Information**

### **10.1. Overview**

This chapter describes in detail by communities the status of the IDEP investigations the five Phase I communities that are monitored under the current permit. Each section will discuss the location of the investigations, the number of confirmed outfalls, specific information regarding each illicit discharge on connection found, and the status of the field investigations. Maps and further IDEP information can be found in Appendix E. This chapter is organized as follows:

- Section 10.2. describes location-specifics for Ann Arbor
- Section 10.3. describes location-specifics for Flint
- Section 10.4. describes location-specifics for Grand Rapids
- Section 10.5. describes location-specifics for Sterling Heights
- Section 10.6. describes location-specifics for Warren

### **10.2. City of Ann Arbor – University Region/Brighton TSC**

Ann Arbor is located in the Southeastern portion of Michigan's Lower Peninsula, west of Detroit in Washtenaw County. Within Ann Arbor run I-94, I-94 B/C, M-14, and Parts of U.S. 23. These MDOT roads are managed by the Jackson Regional office and serviced by the Brighton TSC. Figure 10-1 represents the 45 confirmed outfalls located along these routes.

Out of these confirmed outfalls, only one illicit connection was found. This illicit connection was located on U.S. Highway 23 with an ID number of 81072-05-A000N and the owner was the University of Michigan. The University of Michigan was notified of the illicit connections and has since removed it. No illicit discharges were found in Ann Arbor. In Ann Arbor, 100% of the fieldwork has been completed.

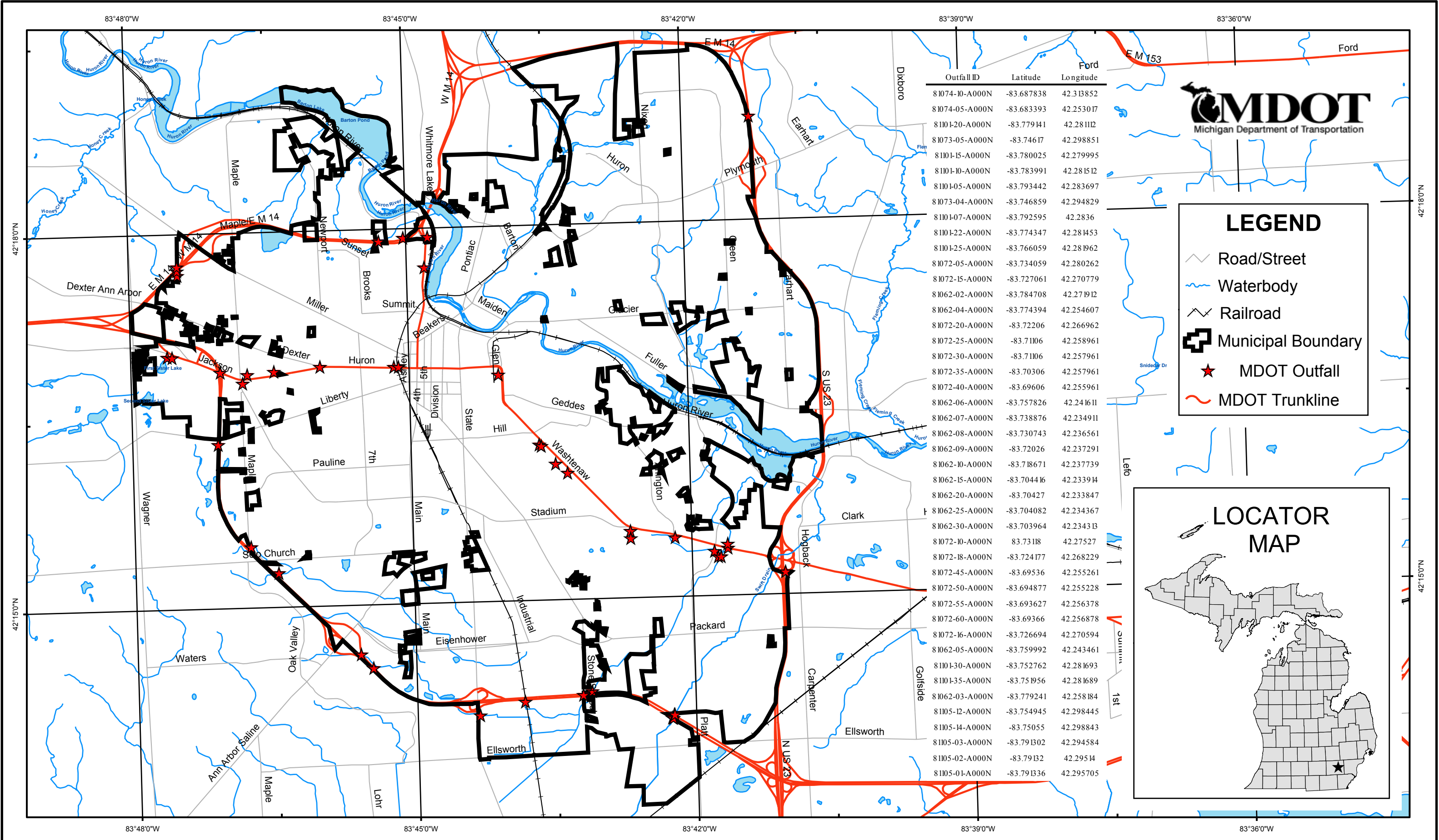
The Metropolitan Planning Organization (MPO) that the MDOT coordinates events with in Ann Arbor is the Southeast Michigan Council of Governments (SEMCOG).

Contact information for the local community regarding storm water issues and concerns are included in Table 10-1.

**Table 10-1 Contact Information for Ann Arbor**

<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Peter Ollila	MDOT Storm Water Program Coordinator	(517) 373-1908	ollilap@michigan.gov
Bob Batt	MDOT University Region Storm Water Coordinator	(517) 750-0410	battb@michigan.gov
Craig Hupy	City of Ann Arbor	(734) 994-1760	chupy@ci.ann-arbor.mi.us
Malama Chock	University of Michigan	(734) 936-1920	chock@umich.edu
Laura Rubin	Huron River Watershed Council	(734) 769-5123	lrubin@hrwc.org
Joan Riley	Ann Arbor Public Schools	N/A	N/A
Harry Sheehan	Washtenaw Country Drain Commissioner's Office	(734) 994-2525	sheehan@co.washtenaw.mi.us

FILE NAME: I:\PROJECTS\2003\2004\ANNUAL REPORT\VERSION 3\ARCVIEW\AA\_INDEX.MXD



Outfall ID	Latitude	Longitude
81074-10-A000N	-83.687838	42.313852
81074-05-A000N	-83.683393	42.253017
81101-20-A000N	-83.779141	42.281112
81073-05-A000N	-83.74617	42.298851
81101-15-A000N	-83.780025	42.279995
81101-10-A000N	-83.783991	42.281512
81101-05-A000N	-83.793442	42.283697
81073-04-A000N	-83.746859	42.294829
81101-07-A000N	-83.792595	42.2836
81101-22-A000N	-83.774347	42.281453
81101-25-A000N	-83.766059	42.281962
81072-05-A000N	-83.734059	42.280262
81072-15-A000N	-83.727061	42.270779
81062-02-A000N	-83.784708	42.271912
81062-04-A000N	-83.774394	42.254607
81072-20-A000N	-83.72206	42.266962
81072-25-A000N	-83.71106	42.258961
81072-30-A000N	-83.71106	42.257961
81072-35-A000N	-83.70306	42.257961
81072-40-A000N	-83.69606	42.255961
81062-06-A000N	-83.757826	42.241611
81062-07-A000N	-83.738876	42.234911
81062-08-A000N	-83.730743	42.236561
81062-09-A000N	-83.72026	42.237291
81062-10-A000N	-83.718671	42.237739
81062-15-A000N	-83.704416	42.233914
81062-20-A000N	-83.70427	42.233847
81062-25-A000N	-83.704082	42.234367
81062-30-A000N	-83.703964	42.234313
81072-10-A000N	83.73118	42.27527
81072-18-A000N	-83.724177	42.268229
81072-45-A000N	-83.69536	42.255261
81072-50-A000N	-83.694877	42.255228
81072-55-A000N	-83.693627	42.256378
81072-60-A000N	-83.69366	42.256878
81072-16-A000N	-83.726694	42.270594
81062-05-A000N	-83.759992	42.243461
81101-30-A000N	-83.752762	42.281693
81101-35-A000N	-83.751956	42.281689
81062-03-A000N	-83.779241	42.258184
81105-12-A000N	-83.754945	42.298445
81105-14-A000N	-83.75055	42.298843
81105-03-A000N	-83.791302	42.294584
81105-02-A000N	-83.79132	42.29514
81105-01-A000N	-83.79136	42.295705



1 inch equals 0.8 miles

Michigan Geographic Framework base map data obtained from the Michigan Center for Geographic Information. Outfall locations obtained with a hand-held GPS unit, accuracy +/- 10 m.

MICHIGAN DEPARTMENT OF TRANSPORTATION  
CITY OF ANN ARBOR  
FACILITY MAP



### 10.3. Flint – Bay Region/Davidson TSC

Flint is located in the Central Eastern portion of Michigan's Lower Peninsula in Genesee County. The TSC responsible for this area is located in Davison, with the region office located in Saginaw. The MDOT trunklines that are located within Flint's municipal boundaries are M-54, I-475, I-69, M-21, a short stretch of Beach Street, and a small portion of U.S. 23.

There are also 96 confirmed outfalls in Flint as shown in Figure 10-8. Out of these confirmed outfalls. Six illicit connections or discharges have been identified to date. Each of these illicit connections or discharges are described in more detail below including the location, a description of the problem the responsible party, and follow up actions that have been taken. Fieldwork is 84 percent completed in Flint as of September 1, 2002.

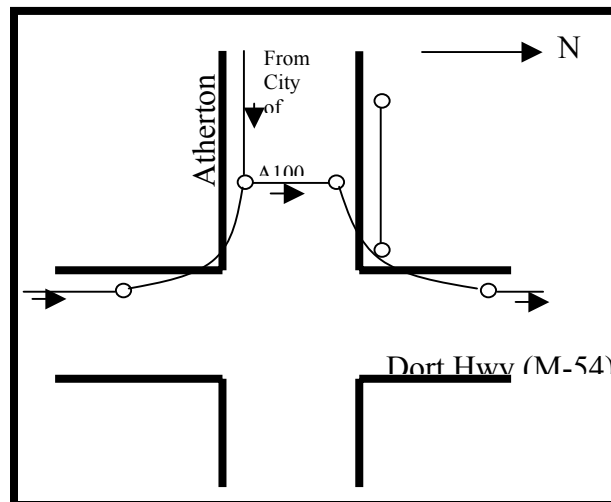
#### 25072-00-A000N

*Location* This outfall discharges drainage from M-54 and the City of Flint into Thread Creek just west of M-54 (see Figure 10-2).

*Description of Problem* During field investigation, dry weather flow was found discharging into the MDOT system from a 48-inch pipe belonging to the City of Flint. The pipe connects to the MDOT system just west of the Dort Highway and Atherton Road intersection at point A100N. Sampling showed elevated levels of *E. coli*.

*Responsible Party* The City of Flint

*Follow up Actions Taken* The City of Flint was notified on August 23, 2002.



**Figure 10-2 Outfall Number 25072-00-A000N in the City of Flint**

**25052-50-A000N**

*Location*

This outfall is located west of Saginaw Highway on 12<sup>th</sup> Street, where the storm sewer system leaves the MDOT right-of-way (as seen in Figure 10-3).

*Description of Problem*

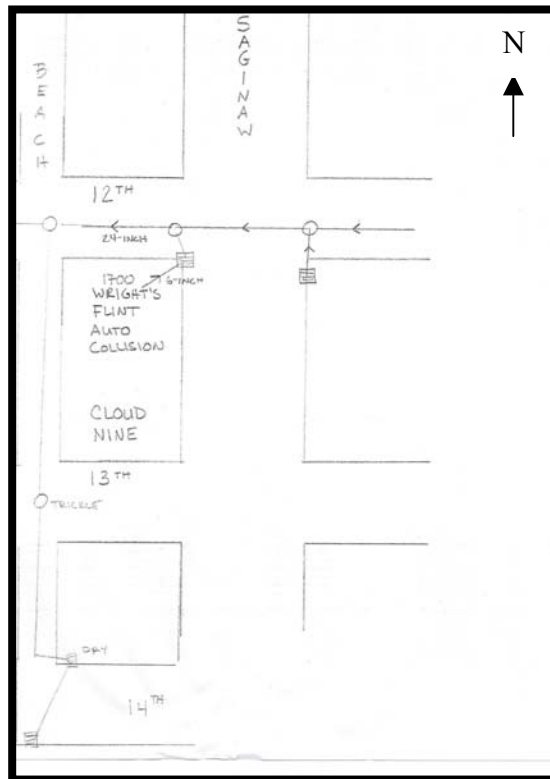
Sampling revealed high *E-coli* and fluoride values at this outfall. Further investigation found the illicit connection just east of the outfall at the intersection of Saginaw Highway and 12<sup>th</sup> Street. In the catch basin at the southwest corner of the intersection a 6-inch line taps into the system.

*Responsible Party*

The source of this tap appears to be Wright's Flint Auto Collision.

*Follow up Actions Taken*

A letter to the landowner is in the process of being drafted.



**Figure 10-3 Outfall Number 25052-50-A000N in the City of Flint**

**25052-30-A000N**

*Location*

This outfall discharges into Thread Creek on the southwest side of Saginaw Highway (Figure 10-4).

*Description of Problem*

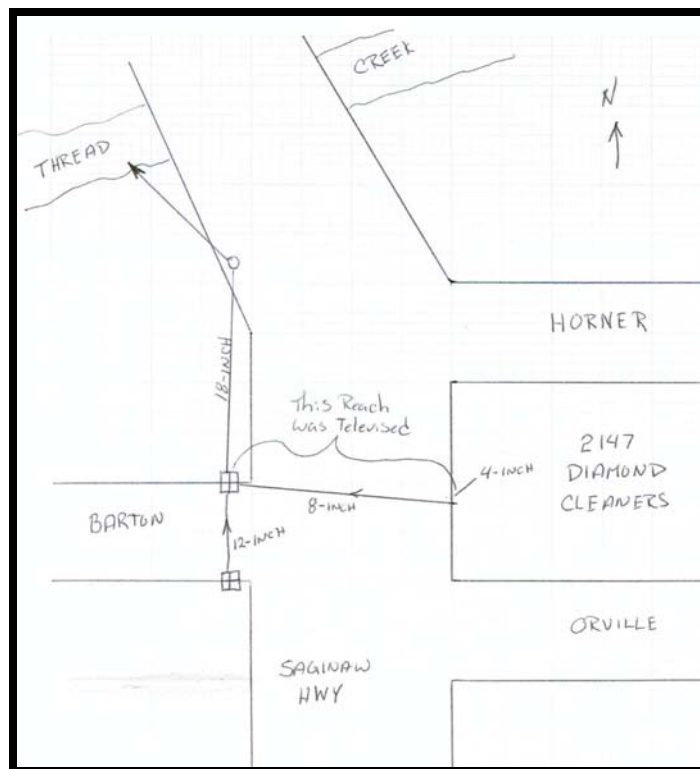
High levels of fluoride, total organic compounds, and *E. coli* were recorded at this outfall. Soapsuds were also present at this site. An unidentified 8-inch line was located in a catch basin at the northeast corner of Saginaw Highway and Barton Drive. Although it appeared that Diamond Cleaners at 2147 Saginaw Highway was tapping into this line, the scenario was unable to be confirmed by visual observations. The 8-inch line tapping into the system was televised on December 21, 2001. The results showed that a 4-inch pipe was the only connection to the 8-inch line.

*Responsible Party*

The illicit connection, therefore, appears to belong to Diamond Cleaners at 2147 Saginaw Highway.

*Follow-up Actions Taken*

The landowner was sent a letter on September 26, 2002.



**Figure 10-4 Outfall Number 25052-30-A000N in the City of Flint**

**25072-24-A000N**

*Location*

This outfall discharges into the south side of Robinson Drain at Dort Highway (see Figure 10-5).

*Description of Problem*

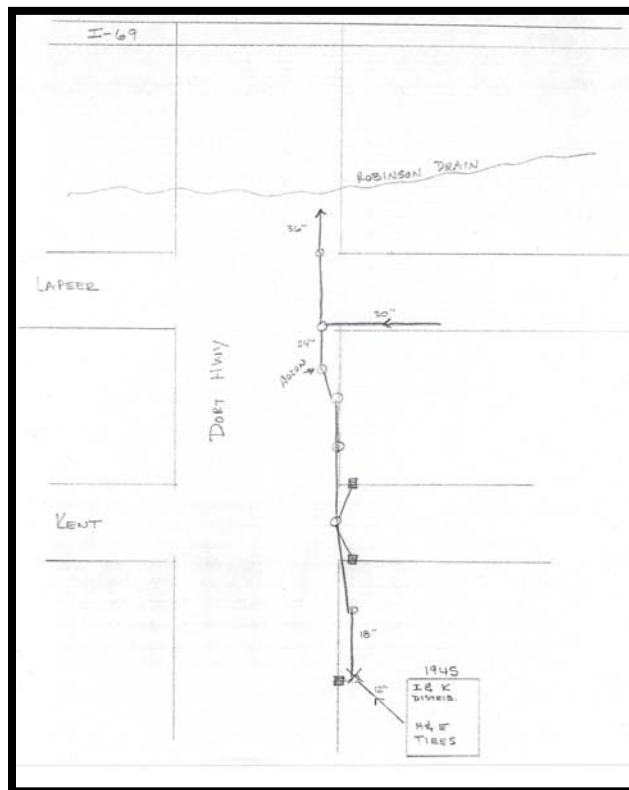
Sampling revealed elevated levels of fluoride, total organic carbon, and detergents at the outfall. The pollutants were tracked upstream to a connection on Dort Highway south of Kent Street. The connection is a 12-inch pipe flowing from the southeast and apparently originating from 1945 Dort Highway. The building is labeled I&K Distributing/H&E Tires.

*Responsible Party*

I&K Distributing/H&E Tires

*Follow-up Actions Taken*

The landowner was sent a letter on September 26, 2002.



**Figure 10-5 Outfall Number 25072-24-A000N in the City of Flint**



## 25072-51-A000N

### *Location*

The outfall is a 24-inch concrete pipe exiting the MDOT system at the intersection of Dort Highway (M-54) and Woodrow Street, and discharging into the City of Flint's municipal storm water system (see Figure 10-6).

### *Description of Problem*

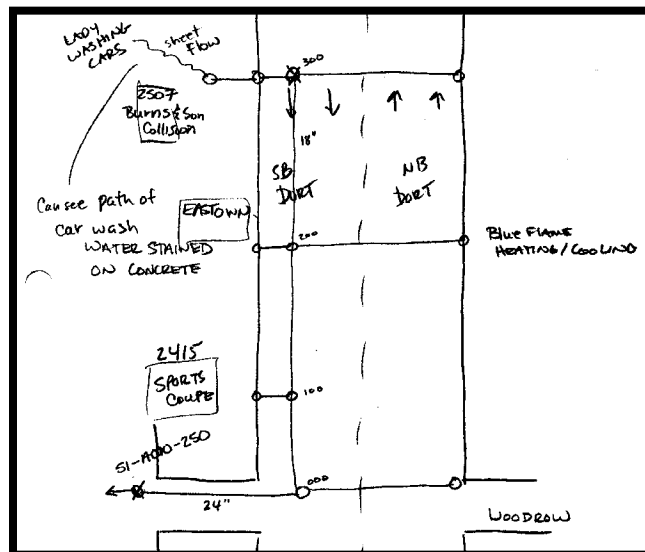
The 24-inch pipe collects drainage along Dort Highway between Delaware and Woodrow Streets and contains intermittent flow. The flow tested positive for detergent, had elevated fluoride, and a low level of hardness. It was concluded that the intermittent flow was coming from the Burns & Sons Collision Shop. On September 18, 2001, it was witnessed that runoff from a paved area used routinely for washing cars (on Burns & Sons Collision property) drains by surface flow to a nearby catch basin that connects into the MDOT stormwater system. There are soap stains on the concrete showing the path of the wash water when this paved area is frequently used to wash cars.

### *Responsible Party*

Burns & Sons Collision Shop

### *Follow up Actions Taken*

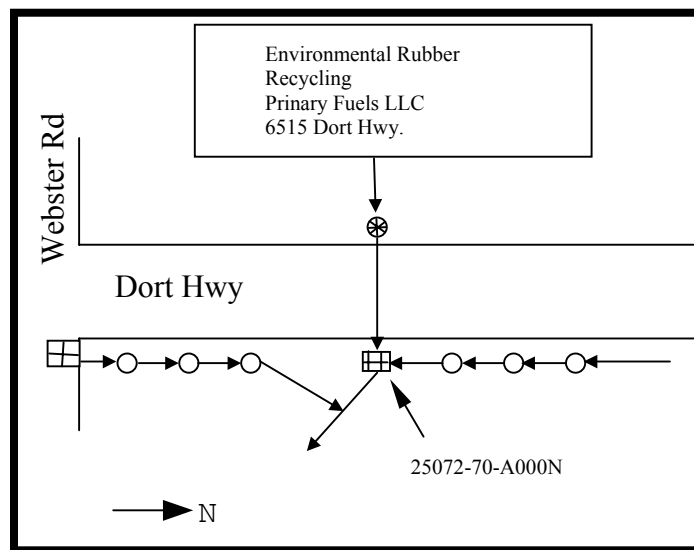
The City of Flint was notified on November 2, 2001.



**Figure 10-6 Outfall Number 25072-51-A000N in the City of Flint**

**25072-70-A000N**

<i>Location</i>	The outfall discharges storm water, collected from Dort Highway, off of the MDOT right-of-way (see Figure 10-7).
<i>Description of Problem</i>	Dry weather flow was present from the line to the north of the outfall, but exists because of a broken water valve. Flow from the pipe to the west of the outfall was also present. Testing of water samples from this pipe showed elevated total organic carbon.
<i>Responsible Party</i>	The suspected source is Environmental Rubber Recycling-Primary Fuels LCC.
<i>Follow up Actions Taken</i>	A letter to the landowner is in the process of being drafted.



**Figure 10-7 Outfall Number 25072-70-A000N in the City of Flint**

During this reporting period, a legal discussion on storm water in Flint and how it pertains to MDOT centered on Act 296 of the 1969 Transfer of Jurisdictional Highways (turnbacks) as it pertains to drainage issues. MDOT looked into the status of previous agreements between MDOT and the new owner of the road/right-of-way after a turnback. MDOT received copies of jurisdictional transfer information to use to determine the impact on NPDES permit coverage area. A specific issue, the turnback of approximately 2-3 miles of Bristol Road in the City of Flint to Genesee Country during this reporting period was monitored by MDOT.

The Metropolitan Planning Organization (MPO) that the MDOT coordinates events with in Flint is the Genesee County Metropolitan Planning Commission.

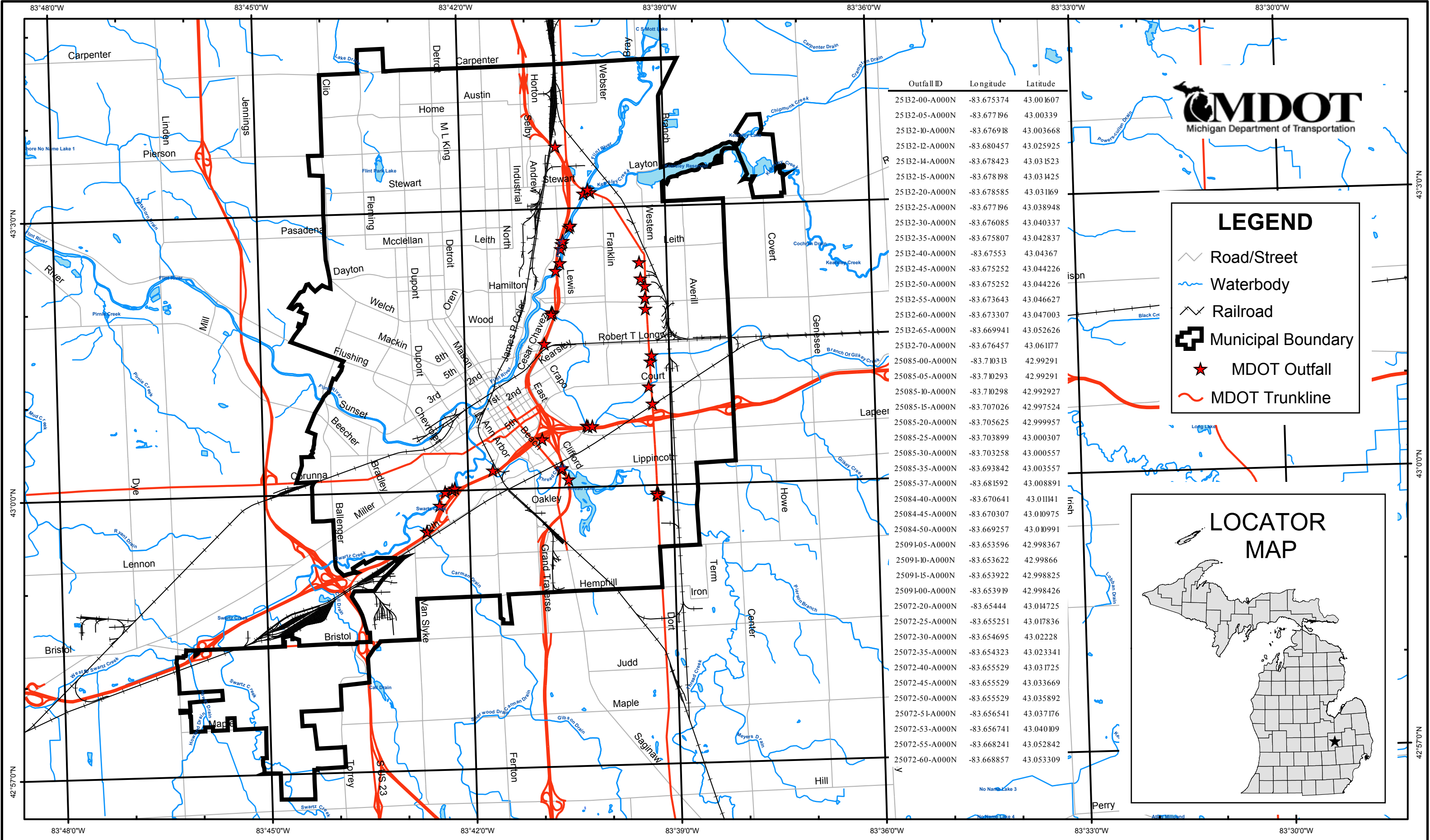
Contact information for the local community regarding storm water issues and concerns are included in Table 10-2.

**Table 10-2 Contact Information for Flint**

<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Peter Ollila	MDOT Storm Water Program Coordinator	(517) 373-1908	ollilap@michigan.gov
Cary Rouse	MDOT Bay Region Storm Water Coordinator	(517) 754-0878	rousec@michigan.gov
Hans Kuhlmann	City of Flint	(810) 766-7135	
Sharon Campbell	City of Flint	(810) 766-7346	
Mike Brown	City of Flint	(810) 766-7210	
Brad Hill	City of Flint	(810)	
Richard Hill-Rowley	University of Michigan - Flint	(810) 766-6608	rhr@umich.edu
Jeff Mansour	Flint River Watershed Coalition	(810) 766-6647	jmansour@umich.edu



FILE NAME: I:\APPROFILES\0326034\09\ANNUAL REPORT\VERSION 3\ARCVIEW\FLINT\_INDEX\_2.MXD



1 inch equals 1.1 miles

Michigan Geographic Framework base map data obtained from the Michigan Center for Geographic Information. Outfall locations obtained with a hand-held GPS unit, accuracy +/- 10 m.



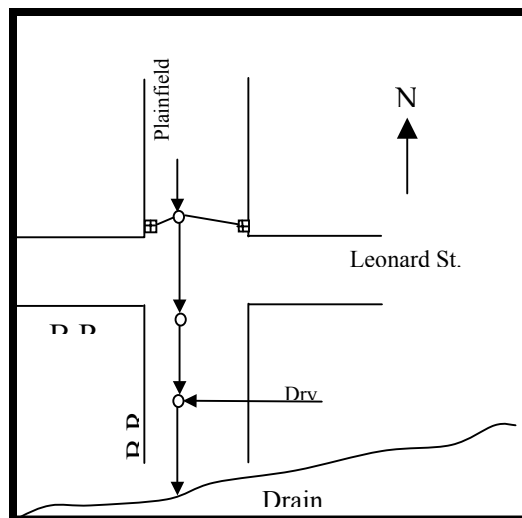
#### 10.4. Grand Rapids – Grand Region/Grand Rapids TSC

The City of Grand Rapids is located in the Central Western portion of Michigan's Lower Peninsula in Kent County. Traversing the City use US 131, I-96, I-196, M-45, M-16, M-11, and Ottawa Drive. These state roads are managed by the Grand Rapids regional office and services by the Grand Rapids TSC.

Out of these outfalls, 96 outfalls were identified in the City of Grand Rapids, as shown in Figure 10-11 only one illicit connection and one suspected illicit discharges were found. These illicit connections/discharges are described in more detail below. To date all outfall have been visited.

##### 41014-70-A000N

<i>Location</i>	This outfall discharges into a drain south of the intersection of Leonard St. and Plainfield Ave (see Figure 10-9).
<i>Description of Problem</i>	The drainage network collects storm water from part of 131 BL and the City of Grand Rapids. Samples taken from the manhole north of the Leonard St. and Plainfield Ave. intersection showed elevated levels of E. Coli and Fluoride.
<i>Responsible Party</i>	City of Grand Rapids
<i>Follow up Actions Taken</i>	The City of Grand Rapids was notified of this illicit connection.



**Figure 10-9 Outfall Number 41014-70-A000N in the City of Grand Rapids**

**41051-52-A000N**

*Location*

The outfall is located just south of the Leonard St. and M-44 intersection (see Figure 10-10).

*Description of Problem*

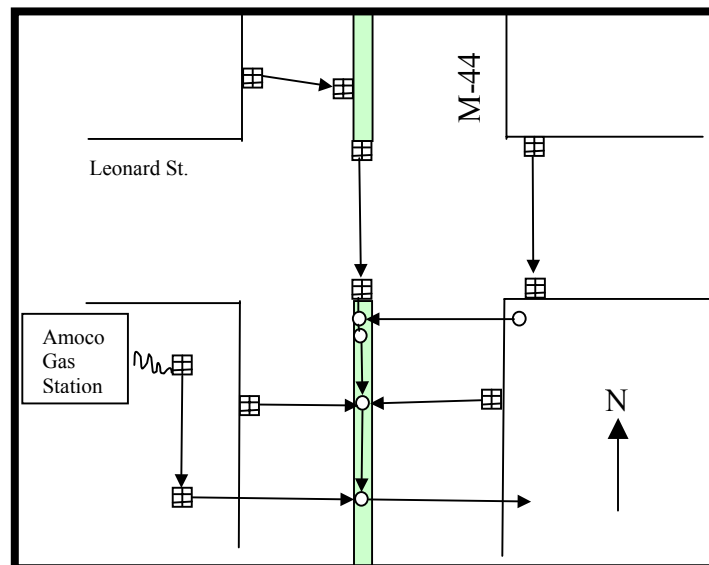
The drainage is collected from M-44 and discharged out of the MDOT right-of-way east of M-44. During the investigation high levels of total organic carbons were detected. The apparent source is the carwash of the Amoco gas station/car wash on the corner of Leonard St. and M-44. Wash water from the carwash is draining overland, bypassing a inlet grate, and reaching the storm sewer system.

*Responsible Party*

Amoco carwash

*Follow up Actions Taken*

The City of Grand Rapids was notified of this illicit connection in September 2002.



**Figure 10-10 Outfall Number 41051-52-A000N in the City of Grand Rapids**



Fleet maintenance is also a concern in Grand Rapids, as the only facilities that are located within the five Phase I communities that require a PIPP are in Grand Rapids. During this reporting period, a PIPP dated July 1998 with E.P.A ID Number MIR000020107 was used for the Grand Rapids Maintenance Garage and a PIPP dated March 2002 with E.P.A. ID Number MID 985572924 was used for the Grand Rapids Bridge and Forestry Facility.

The Metropolitan Planning Organization (MPO) that the MDOT coordinates events with in Grand Rapids is the Grand Valley Metro Council.

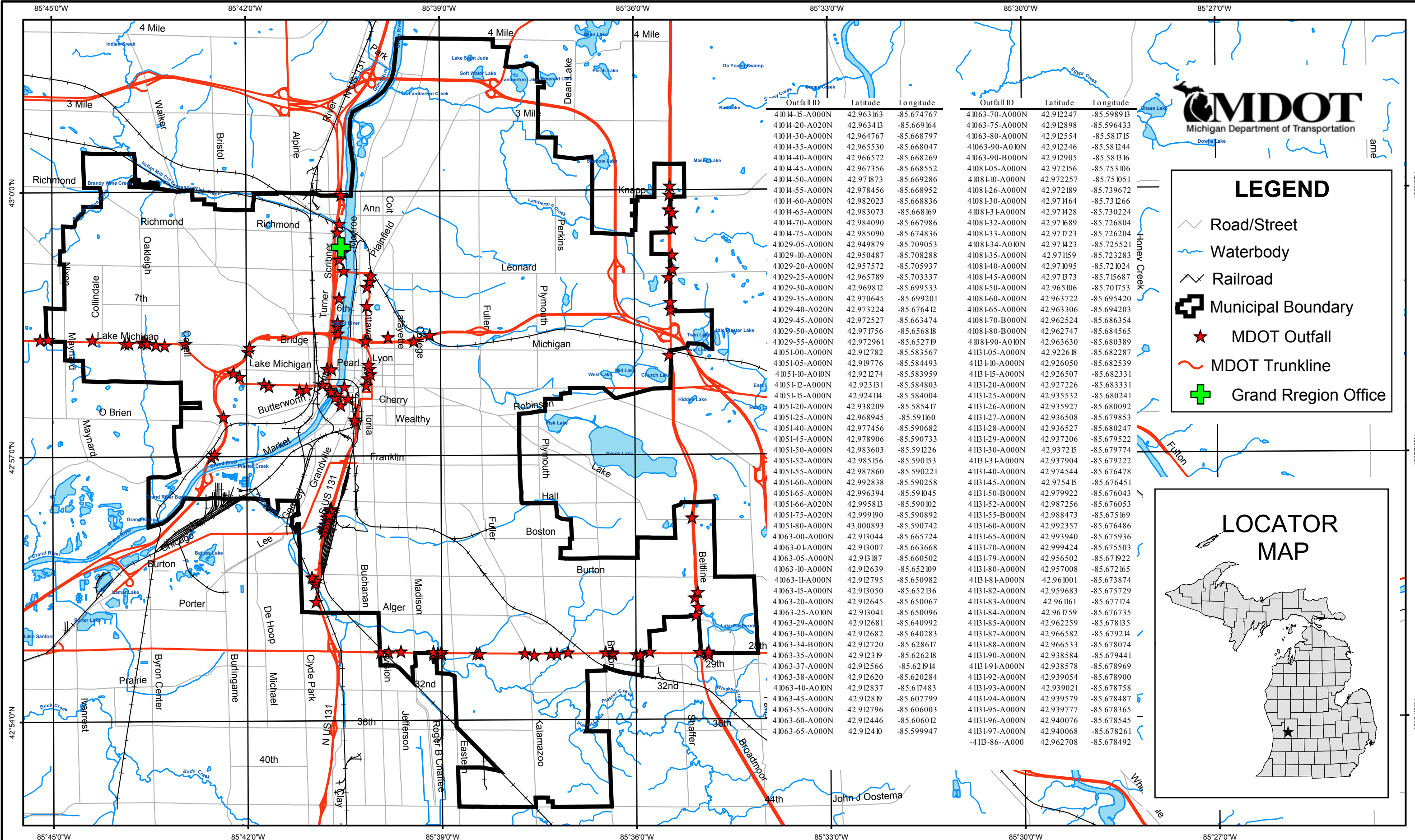
Contact information for the local community regarding storm water issues and concerns are included in Table 10-3.

**Table 10-3 Local Contact Information for Grand Rapids**

<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Peter Ollila	MDOT Storm Water Program Coordinator	(517) 373-1908	ollilap@michigan.gov
Todd Neiss	MDOT Grand Region Storm Water Coordinator	(616) 451-3091	neisst@michigan.gov
John Schaut	City of Grand Rapids	(616) 456-4637	jschaut@epd.grand-rapids.mi.us
Mia Debruyne	Robert B. Annis Water Resources Institute at Grand Valley State University	(616) 895-2527	debruynm@gvsu.edu



FILE NAME: /LAP/PROFILES/0326034/09/ANNUAL REPORT/VERSION 3/ARCVIEW/GR\_INDEX.MXD



1 inch equals 1.1 miles

Michigan Geographic Framework base map data obtained from the Michigan Center for Geographic Information. Outfall locations obtained with a hand-held GPS unit, accuracy +/- 10 m.



### **10.5. Sterling Heights – Metro Region/Macomb TSC**

Sterling Heights is located in the Southeastern portion of Michigan's Lower Peninsula in Macomb County in metro Detroit. The regional office responsible for M-53 and M-59 within the City of Sterling Heights is located in the City of Southfield. Ninety-six confirmed outfalls exist along state roads in Sterling Heights as shown in Figure 10-12.

All field investigation for the city of Sterling Heights have been completed no illicit connections or discharges were identified.

The Metropolitan Planning Organization (MPO) that the MDOT coordinates events with in Sterling Heights is the Southeast Michigan Council of Governments (SEMCOG).

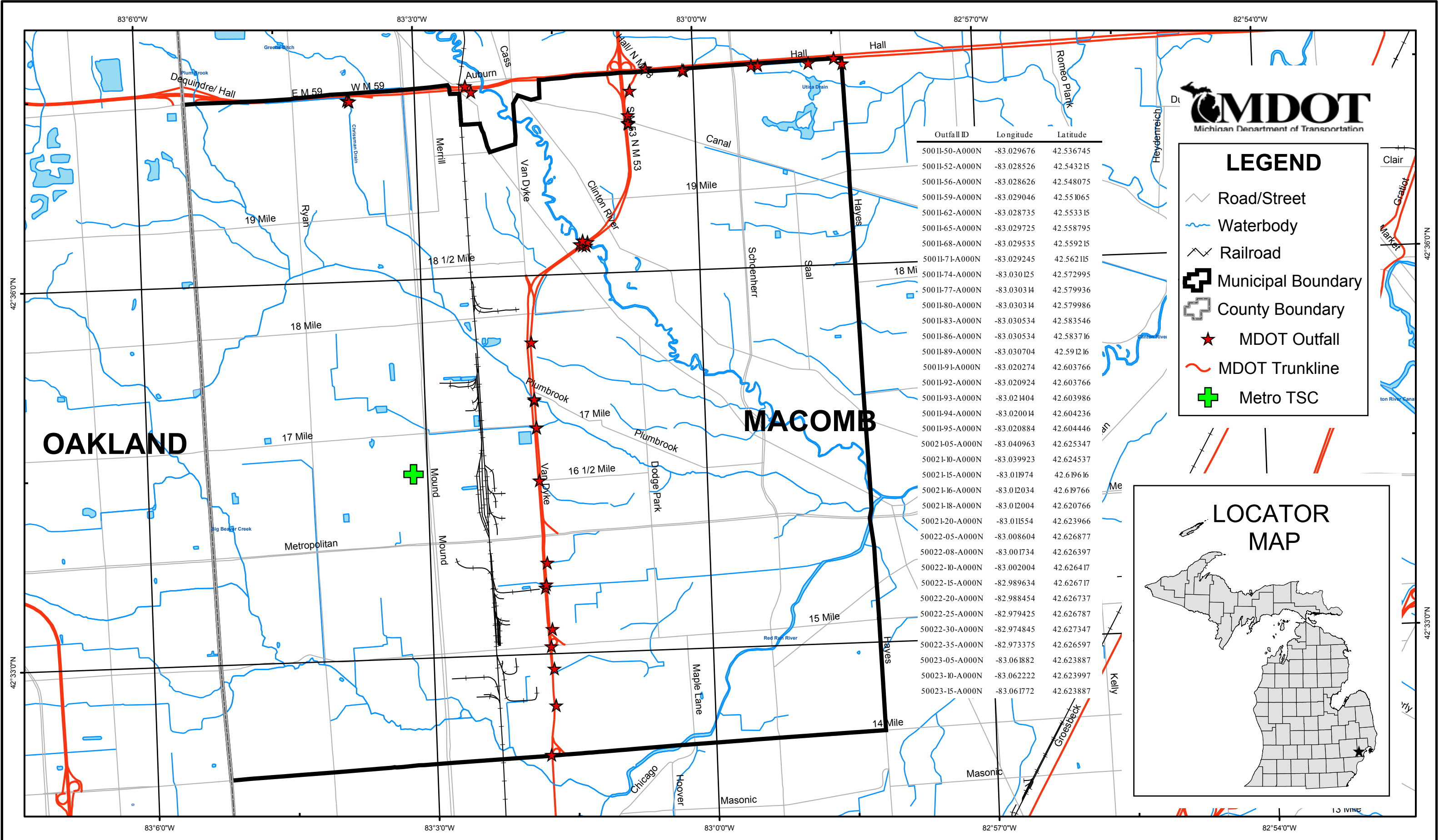
Contact information for the local community regarding storm water issues and concerns are included in Table 10-4.

**Table 10-4 Local Contact Information for Sterling Heights**

<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Peter Ollila	MDOT Storm Water Program Coordinator	(517) 373-1908	ollilap@michigan.gov
Sharon Ferman	MDOT Metro Region Storm Water Coordinator	(248) 569-3103	fermans@michigan.gov
Tom Dehondt	City of Sterling Heights	(586) 446-2498	tdehondt@sterling-heights.net
Dan Sears	City of Sterling Heights	(586) 446-2498	dsears@sterling-heights.net
Meg Larson	Clinton River Watershed Council	(248) 853-9581	educator@crwc.org
Barbara Mathews	Macomb County Department of Public Works	(586) 466-4016	N/A




FILE NAME: I:\APPROFILES\0326034\09\ANNUAL REPORT\VERSION 3\ARCVIEW\ST\_HEIGHTS\_2.MXD



**TETRA TECH MPS**

DESIGNED: J. BRESCOL    DATE: 09/30/02



1 inch equals 0.8 miles

Michigan Geographic Framework base map data obtained from the Michigan Center for Geographic Information. Outfall locations obtained with a hand-held GPS unit, accuracy +/- 10 m.

MICHIGAN DEPARTMENT OF TRANSPORTATION  
CITY OF STERLING HEIGHTS  
FACILITY MAP

FIGURE  
**10-12**





## **10.6. Warren – Metro Region/Macomb TSC**

Warren is located in the Southeastern portion of Michigan's Lower Peninsula in Macomb County in Metro Detroit. Within the City of Warren, the state owns and manages from its regional office in Southfield, I-696, M-3, M-53, M-97, and M-102.

A total of 51 outfalls were identified and investigated along state roads in Warren. The field investigation of these outfalls has been completed. Out of the 51 outfalls, 8 were found to have illicit connections or discharges. Each of these illicit connections and suspected discharges are discussed in more detail below.

### **50011-18-A100N**

<i>Location</i>	This outfall is located at the intersection of M-53 and Van Dyke Road.
<i>Description of Problem</i>	During investigations it was found that an existing bulkhead was placed in the wrong pipe at the intersection of M-53 and Van Dyke Road.
<i>Follow-up Actions Taken</i>	The illicit has been removed

### **50031-10-B010N**

<i>Location</i>	A connection was found to exist on M-97.
<i>Description of Problem</i>	A toilet at the Fisk Wallbar Company was connected to the storm sewer system.
<i>Responsible Party</i>	Fisk Wallbar Company
<i>Follow-up Actions Taken</i>	This illicit connection has been removed.

### **50031-10-B015N**

<i>Location</i>	An illicit discharge was found to exist on M-97.
<i>Description of Problem</i>	The Fisk Landscaping Company on M-97 was found to be washing vehicles over a catch basin.
<i>Responsible Party</i>	Fisk Landscaping Company
<i>Follow-up Actions Taken</i>	The city was informed on 11/02/00 and a directive was issued to modify operation only. The illicit discharge has been eliminated.

**50031-10-A010N**

<i>Location</i>	An illicit connection was found to exist on M-97.
<i>Description of Problem</i>	A sanitary connection was found on M-97 originating from Fisk Best Block Trucking Company.
<i>Responsible Party</i>	Fisk Best Block Trucking Company
<i>Follow-up Actions Taken</i>	The city was notified on 11/2/00 and the connection was removed on 1/00.

**50061-70-A000N**

<i>Location</i>	This outfall is located on the I-696 South Service Drive at the Loraine Drain.
<i>Description of Problem</i>	Sampling within this system showed high levels of <i>E. Coli</i> . A source could not be identified, which suggests it is an illicit discharge.
<i>Follow-up Actions Taken</i>	The city was notified of this condition and is continuing on 9/18/01. The city is to search for the source.

**50061-94-C010N**

<i>Location</i>	A catch basin located on I-696 North Service Drive at 14671 Palco Drive.
<i>Description of Problem</i>	Runoff from a horse stable and manure pile was found to be entering the catch basin.
<i>Responsible Party</i>	The horse stable
<i>Follow-up Actions Taken</i>	The city was notified on 10/01/01 and has since written the landowner a notification letter and is awaiting a response.

**50061-94-F050N**

<i>Location</i>	On I-696 North Service Drive an illicit connection was Found.
<i>Description of Problem</i>	The potential pollutant is oil/hydraulic fluid being washed into the storm sewer system.
<i>Responsible Party</i>	Radar Industries at 27101 Groesbeck Drive

*Follow-up Actions Taken* The city was notified on 10/01/01. Currently, the city is investigating the source.

**50061-05-A130N**

*Location* This outfall is located at Madison Heights on I-696 East Bound Service Drive and Battelle Street.

*Description of Problem* High parameter values were identified at the outfall. A source could not be found, suggesting that this is an illicit discharge or direct dumping of material into the catch basin.

*Follow-up Actions Taken* The city was notified of this condition on 10/03/01. The city has determined that the sources probable an illicit discharge and has asked the Police to keep a watchful eye.

**50061-05-C050N**

*Location* The illicit connection was found on I-696 East Bound Service Drive and Dequindre.

*Description of Problem* The sanitary service for a transmission shop was tapped into the storm sewer system.

*Follow-up Actions Taken* The connection has been removed and is being monitored by Oakland County.

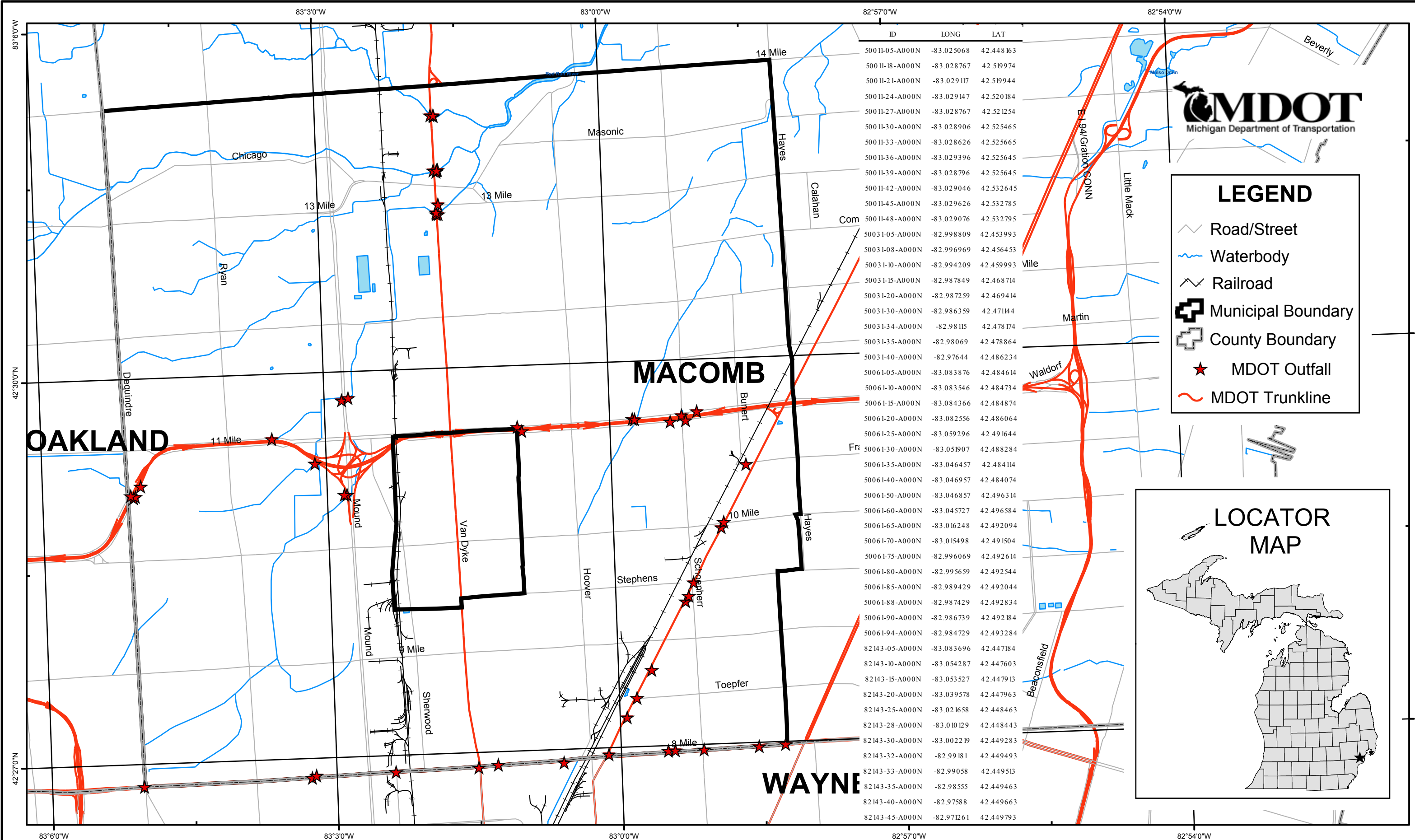
The Metropolitan Planning Organization (MPO) that the MDOT coordinates events with in Warren is the Southeast Michigan Council of Governments (SEMCOG).

Contact information for the local community regarding storm water issues and concerns are included in Table 10-5.

**Table 10-5 Local Contact Information for Warren**

<b>Name</b>	<b>Organization</b>	<b>Phone</b>	<b>Email</b>
Peter Ollila	MDOT Storm Water Program Coordinator	(517) 373-1908	ollilap@michigan.gov
Sharon Ferman	MDOT Metro Region Storm Water Coordinator	(248) 569-3103	fermans@michigan.gov
Richard Doherty	City of Warren	(810) 759-9300	N/A
Todd Schaedig	City of Warren	(810) 759-9300	N/A
Meg Larson	Clinton River Watershed Council	(248) 853-9581	educator@crwc.org
Barbara Mathews	Macomb County Department of Public Works	(586) 466-4016	N/A

FILE NAME: I:\APROFILES\0326034\09\ANNUAL REPORT\VERSION 3\ARCVIEW\WARREN\_2.MXD



DESIGNED: J. BRESOL    DATE: 09/30/02



1 inch equals 0.8 miles

Michigan Geographic Framework base map data obtained from the Michigan Center for Geographic Information. Outfall locations obtained with a hand-held GPS unit, accuracy +/- 10 m.

MICHIGAN DEPARTMENT OF TRANSPORTATION  
CITY OF WARREN  
FACILITY MAP